PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Troy A. Manning Attorney Docket No.: 500444.04

Filed : Concurrently herewith

Title : METHOD AND APPARATUS FOR GENERATING EXPECT DATA FROM A

CAPTURED BIT PATTERN, AND MEMORY DEVICE USING SAME

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. §§ 1.56 and 1.97 through 1.98, applicant wishes to make known to the Patent and Trademark Office the references set forth on the attached form PTO-1449. This application relies, under 35 U.S.C. § 120, on the earlier filing date of prior Application No. 10/268,351, filed October 9, 2002, which is a continuation of Application No. 09/924,139, filed August 7, 2001, issued November 5, 2002 as Patent No. 6,477,675 B2, which is a divisional of Application No. 09/146,860, filed September 3, 1998, issued February 19, 2002 as Patent No. 6,349,399 B1. The references listed on the attached Form PTO-1449 were submitted to and/or cited by the Patent and Trademark Office in these prior applications and, therefore, are not required to be provided in this application. If the Examiner wishes, copies will be provided upon request. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicant's duty to disclose all information he is aware of which is believed relevant to the examination of the above-identified application, applicant believes that his invention is patentable.

Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Respectfully submitted,

DORSEY & WHITNEY LLP

Kimton N. Eng Registration No. 43,605

KNE:asw

Enclosure:

Form PTO-1449

1420 Fifth Avenue, Suite 3400 Seattle, WA 98101 Telephone (206) 903-8800 Facsimile (206) 903-8820

* EXAMINER:

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE ATTY. DOCKET NO. 500444.04

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				PATENT I	DOCUMENTS	1 07 105	T cumor 4 cc	EII DIO DATE
EXAMINER INITIAL		DOCUMENT NUMBER	DATE		NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATI
	AA	3,633,174	01/04/72	Griffin		340	172.5	
	AB	4,004,100	01/18/77	Takimoto		179	15 BS	
	AC	4,077,016	02/28/78	Sanders et	t al.	331	4	
	AD	4,096,402	06/20/78	Schroeder	et al.	307	362	
	AE	4,404,474	09/13/83	Dingwall		307	260	
	AF	4,481,625	11/06/84	Roberts et	t al.	370	85	
	AG	4,508,983	04/02/85	Allgood e	et al.	307	577	
	АН	4,511,846	04/16/85	Nagy et a	1.	328	164	
	AI	4,514,647	04/30/85	Shoji		307	269	
	AJ	4,524,448	06/18/85	Hullwege	n	375	118	
	AK	4,573,017	02/25/86	Levine		327	114	
	AL	4,600,895	07/15/86	Landsmar	n	331	1 A	
	AM	4,603,320	07/29/86	Farago		341	89	
	AN	4,638,187	01/20/87	Boler et a	1.	307	451	
	AO	4,638,451	01/20/87	Hester et	al.	395	889	
	AP	4,687,951	08/18/87	McElroy		307	269	
	AQ	4,727,541	02/23/88	Mori et al		370	112	
-	AR	4,746,996	05/24/88	Furuhata	et al.	360	36.2	
	AS	4,773,085	09/20/88	Cordell		375	120	
	AT	4,789,796	12/06/88	Foss		307	443	
	AU	4,818,995	04/04/89	Takahash	i et al.	341	94	
	AV	4,893,087	01/09/90	Davis		328	14	
	AW	4,902,986	02/20/90	Lesmeiste	er	331	25	
	AX	4,953,128	08/28/90	Kawai et	al.	365	194	
	AY	4,958,088	09/18/90	Farah-Ba	khsh et al.	307	443	
	AZ	4,972,470	11/20/90	Farago		380	3	

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				. PATENT DOCUMENTS			
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATI
	ВА	4,984,204	01/08/91	Sato et al.	365	189.11	
	вв	5,020,023	05/28/91	Smith	364	900	
	вс	5,038,115	08/06/91	Myers et al.	331	2	
	BD	5,062,082	10/29/91	Choi	365	230.06	
	BE	5,075,569	12/24/91	Branson	307	270	
	BF	5,086,500	02/04/92	Greub	395	550	
	BG	5,087,828	02/11/92	Sato et al.	307	269	
	вн	5,122,690	06/16/92	Bianchi	307	475	
	ВІ	5,128,560	07/07/92	Chern et al.	307	475	
	BJ	5,128,563	07/07/92	Hush et al.	307	482	
	вк	5,130,565	07/14/92	Girmay	307	265	
	BL	5,134,311	07/28/92	Biber et al.	307	270	
	ВМ	5,150,186	09/22/92	Pinney et al.	357	42	
	BN	5,165,046	11/17/92	Hesson	307	270	
	во	5,168,199	12/01/92	Huffman et al.	315	370	
	BP	5,179,298	01/12/93	Hirano et al.	307	443	
	BQ	5,182,524	01/26/93	Hopkins	330	149	
	BR	5,194,765	03/16/93	Dunlop et al.	307	443	
	BS	5,212,601	05/18/93	Wilson	360	51	
	вт	5,220,208	06/15/93	Schenck	307	443	
	ВU	5,223,755	06/29/93	Richley	307	603	
	вv	5,229,929	07/20/93	Shimizu et al.	363	98	
	вw	5,233,314	08/03/93	McDermott et al.	331	17	
	вх	5,233,564	08/03/93	Ohshima et al.	365	230.05	
	вү	5,239,206	08/24/93	Yanai	307	272.2	
	BZ	5,243,703	09/07/93	Farmwald et al.	395	325	

Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in

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*EVAMINED		DOCUMENT NUMBER	U.S	. PATENT DOCUMENTS NAME	CLASS	SUBCLASS	FILING DATE
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	IF APPROPRIATE
	CA	5,254,883	10/19/93	Horowitz et al.	307	443	
	СВ	5,256,989	10/26/93	Parker et al.	331	1 A	
	СС	5,257,294	10/26/93	Pinto et al.	375	120	
	CD	5,268,639	12/07/93	Gasbarro et al.	324	158 R	
	CE	5,272,729	12/21/93	Bechade et al.	375	118	
	CF	5,274,276	12/28/93	Casper et al.	307	443	
	CG	5,276,642	01/04/94	Lee	365	189.04	
	СН	5,278,460	01/11/94	Casper	307	296.5	
	CI	5,281,865	01/25/94	Yamashita et al.	307	279	
	CJ	5,283,631	02/01/94	Koerner et al.	307	451	
	СК	5,289,580	02/22/94	Latif et al.	395	275	
	CL	5,295,164	03/15/94	Yamamura	375	120	
	СМ	5,304,952	04/19/94	Quiet et al.	331	1 A	
	CN	5,311,481	05/10/94	Casper et al.	365	230.06	
	со	5,311,483	05/10/94	Takasugi	365	233	
	СР	5,313,431	05/17/94	Uruma et al.	365	230.05	
	СQ	5,315,388	05/24/94	Shen et al.	348	718	
-	CR	5,321,368	06/14/94	Hoelzle	328	63	
	CS	5,337,285	08/09/94	Ware et al.	365	227	
	СТ	5,341,405	08/23/94	Mallard, Jr.	375	120	
	CU	5,347,177	09/13/94	Lipp	307	443	
	cv	5,347,179	09/13/94	Casper et al.	307	451	
	CW	5,355,391	10/11/94	Horowitz et al.	375	36	
	СХ	5,361,002	11/1/94	Casper	327	530	-
	CY	5,367,649	11/22/94	Cedar	395	375	<u>.</u>
	cz	5,379,299	01/03/95	Schwartz	370	108	

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE		DOCUMENTS NAME	CLASS	SUBCLASS	FILING DATE
	DA	5,390,308	02/14/95	Ware et a	1.	395	400	ļ
	DB	5,400,283	03/21/95	Raad	···	365	203	
	DC	5,402,389	03/28/95	Flannagai	n et al.	365	233	
	DD	5,408,640	04/18/95	MacIntyre	e et al.	395	550	
	DE	5,410,263	04/25/95	Waizman		327	141	
	DF	5,416,436	05/16/95	Rainard		327	270	
	DG	5,416,909	05/16/95	Long et a	 l.	395	275	
	DH	5,420,544	05/30/95	Ishibashi		331	11	
	DI	5,428,311	06/27/95	McClure		327	276	
	DJ	5,428,317	06/27/95	Sanchez e	t al.	331	1 A	
	DK	5,430,408	07/04/95	Ovens et	al.	327	407	
	DL	5,430,676	07/04/95	Ware et a	l.	365	189.02	
	DM	5,432,823	07/11/95	Gasbarro	et al.	375	356	
	DN	5,438,545	08/01/95	Sim		365	189.05	
	DO	5,440,260	08/08/95	Hayashi e	t al.	327	278	
	DP	5,440,514	08/08/95	Flannagar	n et al.	365	194	
	DQ	5,444,667	08/22/95	Obara		365	233	
	DR	5,446,696	08/29/95	Ware et a		365	222	
	DS	5,448,193	09/05/95	Baumert e	et al.	327	156	
	DT	5,451,898	09/19/95	Johnson		327	563	
	DU	5,457,407	10/10/95	Shu et al.		326	30	
	DV	5,465,076	11/07/95	Yamauchi	et al.	331	179	
	DW	5,473,274	12/05/95	Reilly et a	1.	327	159	
	DX	5,473,575	12/05/95	Farmwald	et al.	365	230.06	
	DY	5,473,639	12/05/95	Lee et al.		375	376	
	DZ	5,485,490	01/16/96	Leung et a	al.	375	371	

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INITIAL		DOCUMENT NUMBER	DATE	HAIRD		565627.05	IF APPROPRIATI
	EA	5,488,321	01/30/96	Johnson	327	66	·
	ЕВ	5,489,864	02/06/96	Ashuri	327	161	
	EC	5,497,127	03/05/96	Sauer	331	17	ļ
	ED	5,497,355	03/05/96	Mills et al.	365	230.08	<u> </u>
	EE	5,498,990	03/12/96	Leung et al.	327	323	
	EF	5,500,808	03/19/96	Wang	364	578	
	EG	5,502,672	03/26/96	Kwon	365	189.05	
	ЕН	5,506,814	04/09/96	Hush et al.	365	230.03	
	EI	5,508,638	04/16/96	Cowles et al.	326	38	
	EJ	5,513,327	04/30/96	Farmwald et al.	395	309	
	EK	5,532,714	07/02/96	Knapp et al.	345	114	
	EL	5,539,345	07/23/96	Hawkins	327	150	1
	EM	5,544,124	08/06/96	Zagar et al.	365	230.08	
	EN	5,544,203	08/06/96	Casasanta et al.	375	376	
	ЕО	5,550,783	08/27/96	Stephens, Jr. et al.	365	233	
	EP	5,552,727	09/03/96	Nakao	327	159	!
	EQ	5,555,429	09/17/96	Parkinson et al.	395	800	
	ER	5,557,224	09/17/96	Wright et al.	327	115	
	ES	5,557,781	09/17/96	Stones et al.	395	550	
	ET	5,563,546	10/08/96	Tsukada	327	408	
	EU	5,568,075	10/22/96	Curran et al.	327	172	
	EV	5,568,077	10/22/96	Sato et al.	327	199	
	EW	5,572,557	11/05/96	Aoki	375	376	
	EX	5,572,722	11/05/96	Vogley	395	555	
	EY	5,574,698	11/12/96	Raad	365	230.06	!
	EZ	5,576,645	11/19/96	Farwell	327	94	
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE		NAME	CLA	SS SUBCLASS	FILING DATE IF APPROPRIAT		
	FA	5,577,236	11/19/96	Johnson e	et al.	395	551	<u> </u>		
	FB	5,578,940	11/26/96	Dillon et	al.	326	30			
	FC	5,578,941	11/26/96	Sher et al	•	326	34			
	FD	5,579,326	11/26/96	McClure		371	61			
	FE	5,581,197	12/03/96	Motley et	al.	326	30			
	FF	5,589,788	12/31/96	Goto	 	327	276			
	FG	5,590,073	12/31/96	Arakawa	et al.	365	185.08			
	FH	5,594,690	01/14/97	Rothenbe	rger et al.	365	189.01			
 	FI	5,614,855	03/25/97	Lee et al.		327	158			
	FJ	5,619,473	04/08/97	Hotta		365	238.5			
	FK	5,621,340	04/15/97	Lee et al.		327	65			
	FL	5,621,690	04/15/97	Jungroth	et al.	365	200			
	FM	5,621,739	04/15/97	Sine et al.		371	22.1			
	FN	5,627,780	05/06/97	Malhi		365	185.09			
	FO	5,627,791	05/06/97	Wright et	al.	365	222			
	FP	5,631,872	05/20/97	Naritake 6	et al.	365	227			
	FQ	5,636,163	06/03/97	Furutani e	et al.	365	233			
	FR	5,636,173	06/03/97	Schaefer		365	230.03			
	FS	5,636,174	06/03/97	Rao		365	230.03			
	FT	5,638,335	06/10/97	Akiyama	et al.	365	230.03			
	FU	5,646,904	07/08/97	Ohno et a	1.	365	233			
	FV	5,652,530	07/29/97	Ashuri		326	93			
	FW	5,657,289	08/12/97	Hush et al		365	230.05			
	FX	5,657,481	08/12/97	Farmwald	et al.	395	551			
	FY	5,663,921	09/02/97	Pascucci e	et al.	365	233			
	FZ	5,666,322	09/09/97	Conkle		365	233			
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	IF APPROPRIAT
	GA	5,668,763	09/16/97	Fujioka et al.	365	200	
	GB	5,668,774	09/16/97	Furatani	365	233	
	GC	5,673,005	09/30/97	Pricer	331	1 R	
	GD	5,675,274	10/07/97	Kobayashi et al.	327	158	
	GE	5,675,588	10/07/97	Maruyama et al.	371	20.4	
	GF	5,692,165	11/25/97	Jeddeloh et al.	395	551	
	GG	5,694,065	12/02/97	Hamasaki et al.	327	108	
·	GH	5,708,611	01/13/98	Iwamoto	365	233 X	
	GI	5,712,580	01/27/98	Baumgartner et al.	327	12	
	GJ	5,719,508	02/17/98	Daly	327	12	
	GK	5,737,342	04/07/98	Ziperovich	371	25.1	
	GL	5,740,123	04/14/98	Uchida	365	233	
	GM	5,751,665	05/12/98	Tanoi	368	120	
	GN	5,767,715	06/16/98	Marquis et al.	327	159	
	GO	5,768,177	06/16/98	Sakuragi	365	194	
	GP	5,774,699	06/30/98	Nagae	395	551	
	GQ	5,778,214	07/07/98	Taya et al.	395	551	
	GR	5,781,499	07/14/98	Koshikawa	365	233	
	GS	5,784,422	07/21/98	Heermann	375	355	
	GT	5,789,947	08/04/98	Sato	327	3	
	GU	5,790,612	08/04/98	Chengson et al.	375	373	
	GV	5,794,020	08/11/98	Tanaka et al.	395	552	
	GW	5,805,931	09/08/98	Morzano et al.	395	884	
	GX	5,812,619	09/22/98	Runaldue	375	376	
	GY	5,822,314	10/13/98	Chater-Lea	370	337	
	GZ	5,831,929	11/03/98	Manning	365	233	

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	НА	5,841,707	11/24/98	Cline et al.	365	194	
	НВ	5,852,378	12/22/98	Keeth	327	171	
	НС	5,872,959	02/16/99	Nguyen et al.	395	552	
	HD	5,889,829	03/30/99	Chiao et al.	375	376	
	HE	5,898,242	04/27/99	Peterson	327	278	
	HF	5,898,674	04/27/99	Mawhinney et al.	370	247	
	HG	5,917,760	06/29/99	Millar	365	194	
	нн	5,920,518	07/06/99	Harrison et al.	365	233	
	ні	5,926,047	07/20/99	Harrison	327	159	
	нл	5,926,436	07/20/99	Toda et al.	365	236	
	нк	5,940,608	08/17/99	Manning	395	551	
	HL	5,940,609	08/17/99	Harrison	395	559	
	НМ	5,946,244	08/31/99	Manning	365	194	
	HN	5,953,284	09/14/99	Baker et al.	365	233	
	но	5,964,884	10/12/99	Partovi et al.	713	503	
	HP	5,990,719	11/23/99	Dai et al.	327	244	
	HQ	6,005,823	12/21/99	Martin et al.	365	230.08	
	HR	6,011,732	01/04/00	Harrison et al.	365	194	
	HS	6,016,282	01/18/00	Keeth	365	233	
	нт	6,023,489	02/08/00	Hatch	375	208	
	HU	6,026,050	02/15/00	Baker et al.	635	233	
	HV	6,029,250	02/22/00	Keeth	713	400	
	HW	6,038,219	03/14/00	Mawhinney et al.	370	242	
	нх	6,067,592	05/23/00	Farmwald et al.	710	104	
	нү	6,101,152	08/08/00	Farmwald et al.	365	233	
	HZ	6,101,197	08/08/00	Keeth et al.	370	517	
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			U.S	. PATENT DOCUMENTS				
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	IA	6,105,157	08/15/00	Miller	714	744		
	IB	6,147,905	11/14/00	Seino	365	185.11		
	IC	6,147,916	11/14/00	Ogura	365	203		
	ID	6,160,423	12/12/00	Haq	327	41		
	IE	6,262,921 B1	07/17/01	Manning	365	194		
	IF	6,269,451 B1	07/31/01	Mullarkey	713	401		
··	IG	6,298,450 B1	10/02/01	Liu et al.	713	502		
	IH	6,327,196 B1	12/04/01	Mullarkey	365	194		
	II	6,338,127 B1	01/08/02	Manning	711	167		
	IJ	6,378,079 B1	04/23/02	Mullarkey	713	401		
	IK	6,499,111 B2	12/24/02	Mullarkey	713	401		
		-	FORE	IGN PATENT DOCUMENTS				
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSI	LATIO
							YES	NO
	IL	0 171 720 A2	02/19/86	EP			X	
	IM	6-1237512	10/22/86	JP (Abstract Only)			X	
	IN	0 295 515 A1	12/21/88	EP			X	
	Ю	2-112317	4/25/90	JP (+ Abstract)			X	
	IP	0 406 786 A1	1/9/91	EP			X	
	IQ	0 450 871 A2	10/9/91	EP			X	
	IR	0 476 585 A3	3/25/92	EP			X	
	IS	4-135311	5/8/92	JP (+ Abstract)			X	
	IT	5-136664	6/1/93	JP (+ Abstract)			X	
	IU	5-282868	10/29/93	JP (Abstract Only)			X	
	IV	WO 94/29871	12/22/94	PCT			X	
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- · · ·	Τ	DOCUMENT NUMBER	DATE	- CONTRACT	NT DOCUMENTS COUNTRY	CLASS	SUBCLASS	TRANS	LATION
		DOCUMENT NUMBER	DATE		COUNTRI	CLASS	SOBCEASS	YES	NO
	IW	0 655 741 A2	5/31/95	EP				X	ļ
	IX	0 655 834 A1	5/31/95	EP				X	
	IY	WO 95/22200	8/17/95	PCT				X	
	IZ	WO 95/22206	8/17/95	PCT				X	
	JA	0 680 049 A2	11/2/95	EP				X	
	JB	0-7319577	12/8/95	JP (+ Abs	stract)			X	
	JC	0 703 663 A1	3/27/96	EP				X	
	JD	0 704 848 A3	4/3/96	EP				X	
	JE	0 704 975 A1	4/3/96	EP				X	
	JF	WO 96/10866	4/11/96	PCT				X	
	JG	0 767 538 A1	4/9/97	EP				X	
	JH	WO 97/14289	4/24/97	PCT				X	
	JI	WO 97/42557	11/13/97	PCT				X	
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	JQ	Arai, Y. et al., "A CMOS Four Channel x 1K Time Memory LSI with 1-ns/b Resolution", IEI Journal of Solid-State Circuits, Vol. 27, No. 3, M, 8107 March, 1992, No. 3, New York, US, 1359-364 and pp. 528-531		
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	JS	Bazes, M., "Two Novel Fully Complementary Self-Biased CMOS Differential Amplifiers", IEEE Journal of Solid-State Circuits, Vol. 26, No. 2, February 1991, pp. 165-168		
	JT	Chapman, J. et al., "A Low-Cost High-Performance CMOS Timing Vernier for ATE", IEEE International Test Conference, Paper 21.2, 1995, pp. 459-468		
	JU	Cho, J. "Digitally-Controlled PLL with Pulse Width Detection Mechanism for Error Correction", ISSCC 1997, Paper No. SA 20.3, pp. 334-335		
	JV	Christiansen, J., "An Integrated High Resolution CMOS Timing Generator Based on an Array of Delay Locked Loops", IEEE Journal of Solid-State Circuits, Vol. 31, No. 7, July 1996, pp. 952-957		
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К		Ishibashi, A. et al., "High-Speed Clock Distribution Architecture Employing PLL for 0.6μm CMOS SOG", IEEE Custom Integrated Circuits Conference, 1992, pp. 27.6.1-27.6.4		
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